

Appl. No. 10/820,824
Amendment dated: October 30, 2008
Reply to OA of: July 9, 2008

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-11(canceled).

12(currently amended). A biosensor for measuring bone mineral density, comprising:

a stimulating source;

a ~~substrate~~ transducer having at least on cantilever beam disposed thereon, wherein the surface of said cantilever beam is immobilized with antibodies against TRAP 5a, TRAP 5b or total TRAP;

a signal detecting unit for detecting signal changes from said transducer; and

a signal processing unit for retrieving and analyzing said signals.

13(original). The biosensor according to Claim 12, wherein said stimulating source is laser or laser diode.

14(original). The biosensor according to Claim 12, wherein said signal detecting unit comprises a position sensitive detector for detecting deflection or shift in resonance frequency of said transducer caused by mass change.

15(currently amended). The biosensor according to Claim 14, wherein the signals of deflection or ~~resource~~ resonance frequency shift can be further amplified optically.

16(original). The biosensor according to Claim 12, wherein biomolecules immobilized on said transducer are antibodies against total TRAP or TRAP 5b.

Claims 17-22(canceled).